KENWOOD

4-CHANNEL POWER AMPLIFIER

KAC-941

INSTRUCTION MANUAL

KENWOOD CORPORATION

Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new 4-channel power amplifier.

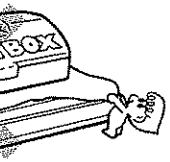
For your records

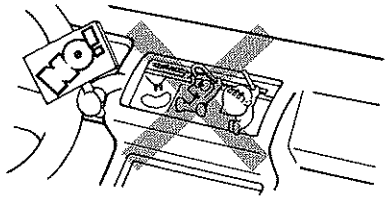
Record the serial number found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KAC-941 Serial number _____

©PRINTED IN JAPAN B50-7943-00(K)(T)
90/12 11 10 9 8 7 6 5 4 3 2 1

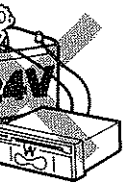
materials into the unit.

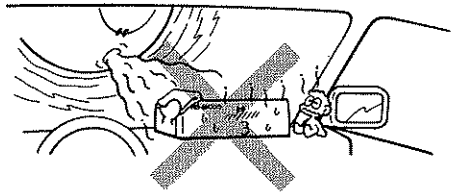




o be connected
grounding.

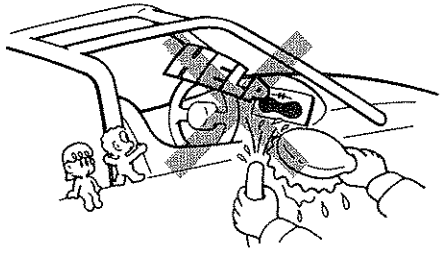
- Do not place the unit, where it will be exposed to direct sunlight or close to heating device.

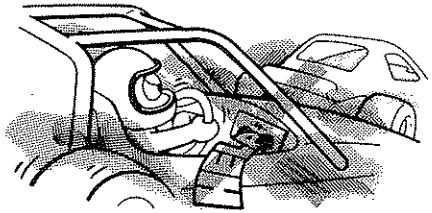




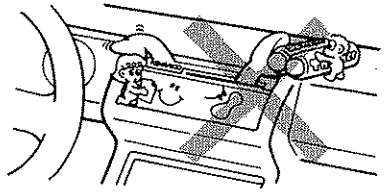
e, such as front
over.

- Do not dash water on the unit.

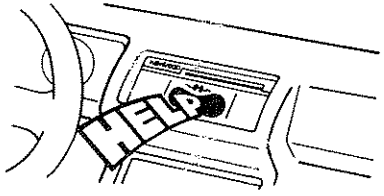




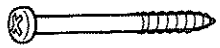
2. Do not use any type of abrasive pad, thinner, benzine and any such kind of objects.
3. Wipe the front panel and other exterior surfaces of the unit with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.



- If an abnormal smell or smoke is detected, immediately turn the power off.



■ If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

screws (φ5×50)		4

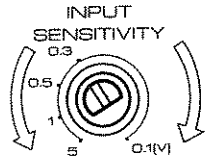
ANNER

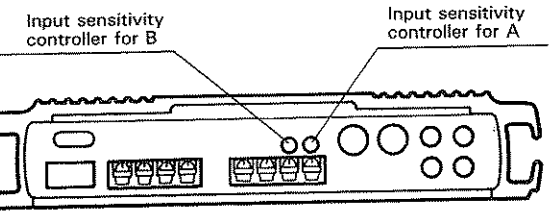
on and wiring, remove the (−) terminal of the battery to prevent short-

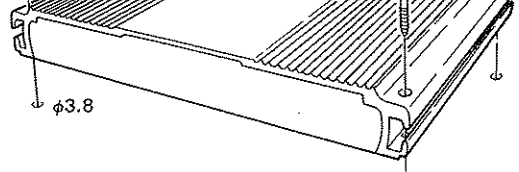
put and output cords of the system.
ound to the metal chassis of the car.
wer supply lead (yellow).
nd after confirming the installation and wirings are correct, connect the
the battery.

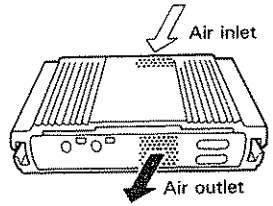
trol
ontrol adjusts the input sensitivity
V to 5.0 V continuously, enabling
s systems. This unit has been set

nit .)	Amplifier input sensitivity
	0.1 V
	0.3~0.5 V





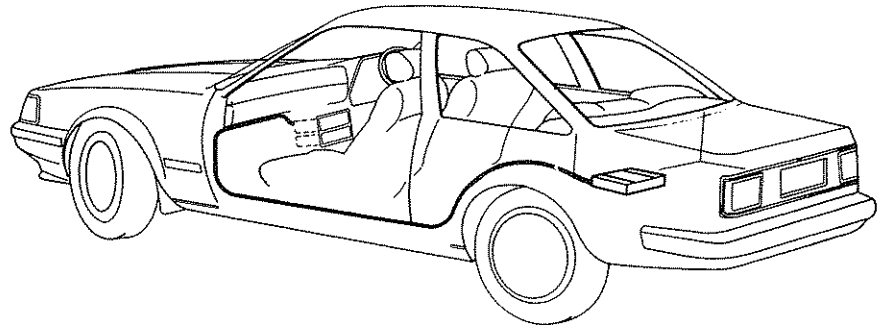




CAUTION
When making the hole, do not damage the fuel tank, brake tube, wiring harnesses, etc. on the other side.

curely for safety driving.
- Use screws supplied as accessories when installing the unit.
- Install the unit in a well-ventilated place and do not place the (heavy) object on it.
- This unit incorporates a cooler fan, which starts rotation automatically when the temperature rises during use. Take care not to block the air inlet and outlet for this fan.

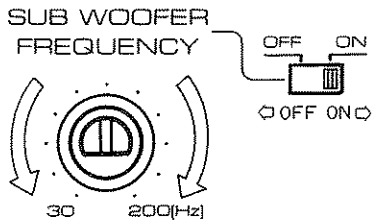
2. Installation location



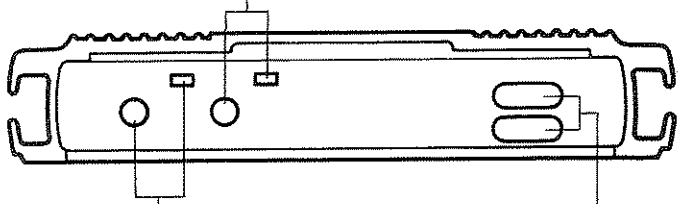
- Since the power amplifier has no parts which require operation, it can be installed at a position away from the driver's seat without any hinderances.
  As generally accepted positions for its installation, places such as inside the trunk, etc. can be considered.
- Use the extension cables. CA-5W (0.5 m), CA-15W (1 m), CA-25W (2 m), CA-45W (4 m), and CA-65W (6 m) (optional) when the connected models are to be installed away from the power amplifier.

USE OF THE OPERATION PANEL ACCORDING TO SYSTEM TYPE

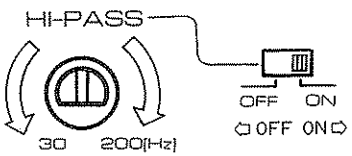
HOW TO USE THE SUB WOOFER SYSTEM



By setting the switch on the right to ON, you can set the B output of this unit for sub woofer output (monaural output). The control on the left can be used to adjust the sub woofer cut-off frequency.



HOW TO USE THE HIGH PASS FILTER SYSTEM



Turning ON the high pass switch can cut the low frequency range at the A side output. The high pass frequency can be adjusted by the knob.

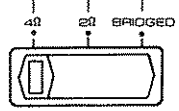
HOW TO USE THE MODE SWITCH

Set this switch according to the impedance of the speakers or the output method, as shown below.

When 4-ohm speakers are connected

When 2-ohm speakers are connected

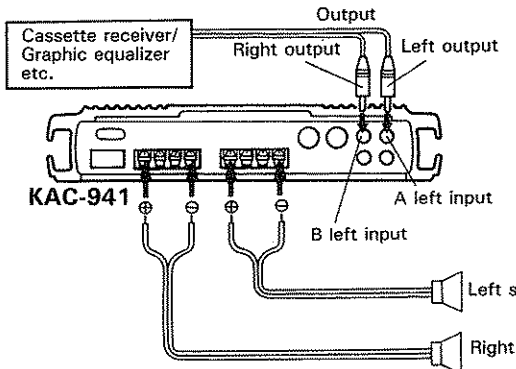
When using a bridged output (See the right statement.)



The upper mode switch is for A, while the lower for B.

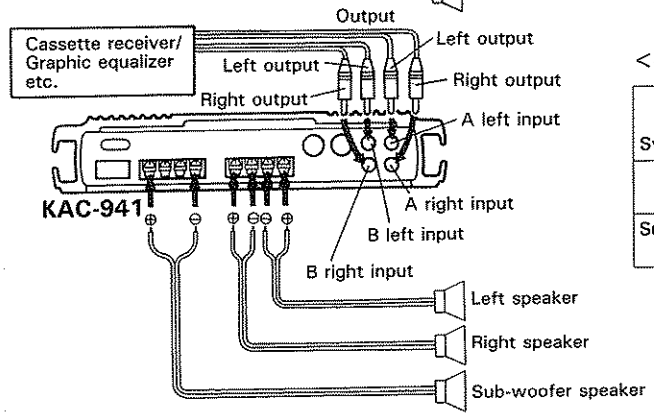
SYSTEM EXAMPLES

Setting the mode switch to the bridge output can double the output of this unit (Monaural output for 4-ohm speakers). The following systems can be assumed by combining this unit with the foregoing function or sub woofer system.



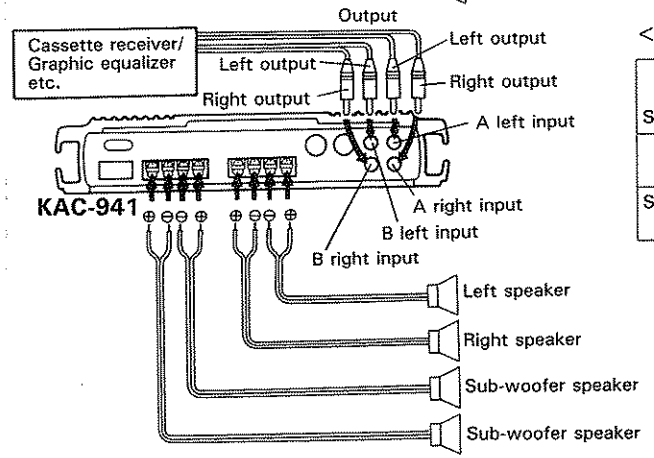
<Selecting condition of switch>

Output Switch	A output	B output
Mode switch	Bridged	Bridged
Sub-woofer switch	—	OFF



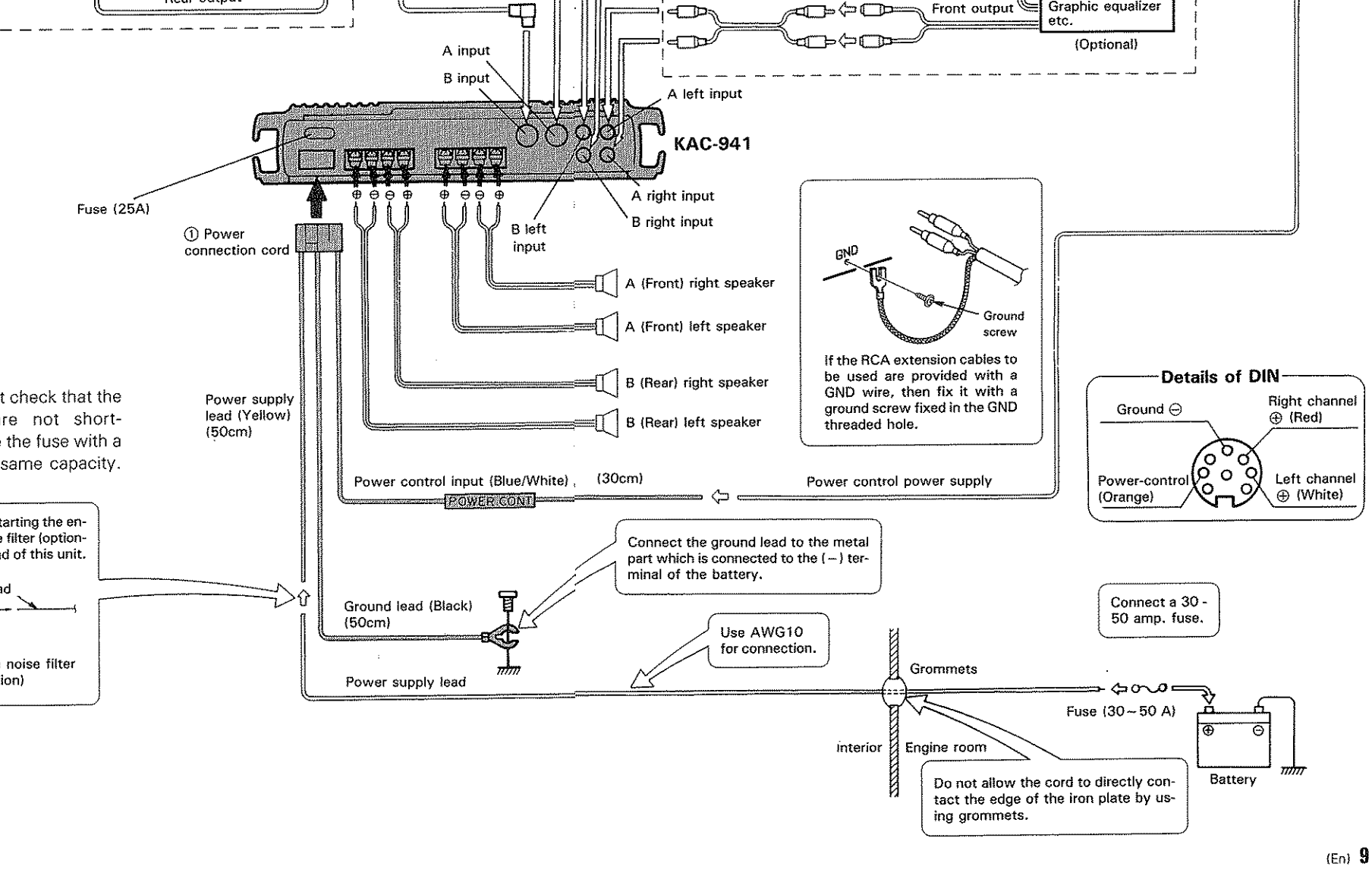
<Selecting condition of switch>

Output Switch	A output	B output
Mode switch	2 Ω/4 Ω	Bridged
Sub-woofer switch	—	ON



<Selecting condition of switch>

Output Switch	A output	B output
Mode switch	2 Ω/4 Ω	2 Ω/4 Ω
Sub-woofer switch	—	ON


Front output
Graphic equalizer etc.
(Optional)
A input
B input
A left input
KAC-941
Fuse (25A)
A right input
B right input
B left input
① Power connection cord
A (Front) right speaker
A (Front) left speaker
B (Rear) right speaker
B (Rear) left speaker
Power supply lead (Yellow) (50cm)
GND
Ground screw
If the RCA extension cables to be used are provided with a GND wire, then fix it with a ground screw fixed in the GND threaded hole.
Details of DIN
Ground ⊖
Right channel ⊕ (Red)
Power-control (Orange)
Left channel ⊕ (White)
Power control input (Blue/White)
(30cm)
Power control power supply
POWER CONT
Connect the ground lead to the metal part which is connected to the (−) terminal of the battery.
Ground lead (Black) (50cm)
Use AWG10 for connection.
Power supply lead
Grommets
Connect a 30 - 50 amp. fuse.
Fuse (30 ~ 50 A)
Interior
Engine room
Battery
Do not allow the cord to directly contact the edge of the iron plate by using grommets.

t check that the
re not short-
the fuse with a
same capacity.

tarting the en-
filter (option-
d of this unit.

ad

noise filter
ion)

TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Cause	Remedy
The sound level is low. (No sound from one side.)	A speaker cord has become unconnected.	Check the speaker cord connections.
The sound quality is bad. (The sound is distorted.)	1. The speakers are connected to the same wires. 2. A speaker cord is pinched by a screw in the car body.	1. Connect each speaker terminal to its respective speaker output. 2. Check the speaker wiring.

SPECIFICATIONS

Specifications subject to change without notice.

Audio section

Max Power Output (1 kHz, 4 Ω)
- 2 Channel Mode ..... 160 W + 160 W
- 3 Channel Mode ..... 80 W × 2 + 160 W
- 4 Channel Mode ..... 80 W × 2 + 80 W × 2

Power Output
- 2 Channel Mode (1 kHz, 4Ω, 0.5% THD) ..... 80 W + 80 W
- 3 Channel Mode (20 Hz ~ 20 kHz, 4 Ω, less than 0.5% THD) ..... 40 W × 2
  - or (1 kHz, 2 Ω, 0.5% THD) ..... 40 W × 2
  - + (1 kHz, 4 Ω, 0.5% THD) ..... 80 W
- 4 Channel Mode (20 Hz ~ 20 kHz, 4 Ω, less than 0.5% THD) ..... 40 W × 2 + 40 W × 2
  - (1 kHz, 2 Ω, 0.5% THD) ..... 40 W × 2 + 40 W × 2

Frequency Response (−3 dB) ..... 2 Hz ~ 100 kHz
Signal to Noise Ratio ..... 105 dB
Input Sensitivity (rated output) MAX. ..... 0.1 V
MIN. ..... 5.0 V
Input Impedance ..... 10 kΩ
Damping Factor (100 Hz) ..... More than 150
Sub-Woofer Frequency (variable) ..... 30 ~ 200 Hz
High-Pass Filter Frequency (variable) ..... 30 ~ 200 Hz

General

Operating Voltage ..... 14.4 V (11 ~ 16 V allowable)
Current Consumption (MAX.) ..... 30 A
Dimensions (W × H × D) ..... 280 × 50 × 200 mm
(11 × 1-15/16 × 7-7/8 in.)
Weight ..... 3.1 kg (6.8 lb)